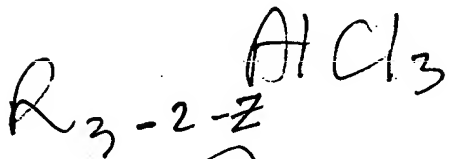
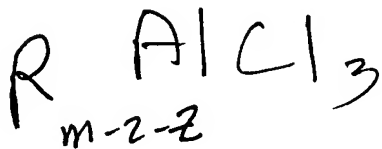
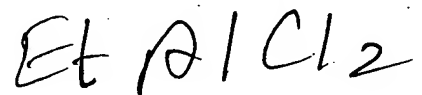


Lin does not teach 'organic' aluminum halide

Sherman a metal halide type Lewis acid and a protic Brønsted acid)



Inorganic Al Hetero
 $AlCl_3$



pt Chlorided
Aluminum

The catalyst comprises:

1) Lewis acid of the metal halide type
e.g. $AlCl_3$

2) a protic Brønsted acid

3) a hydrocarbon component

The Lewis acid-hydrocarbon complex catalyst type is the new product of
 $RAlCl_3 + \text{hydrogen halide (HCl)} + \text{a hydro}$